

## ABSTRACT

A device is provided for removing membranous lead sulfate deposited on electrodes of a lead-acid battery by dissolving the lead sulfate into fine particles without causing the membranous lead sulfate to fall off or be suspended in the electrolytic solution, thus recovering the performance of the battery from a deteriorated state and prolonging the battery life. The device emits little noise to the outside and removes the membranous lead sulfate deposited on electrodes of the lead-acid battery due to sulfation by bringing about a conductor skin effect, whereby the surface layer of the membranous lead sulfate deposited on the electrodes is dissolved with a pulse current having a short pulse width, the device being attached to a lead-acid battery and provided with a voltage detector, reference voltage generator, voltage comparator, oscillator, amplifier, waveform shaping circuit, negative pulse generator, and electrifying indicator. The pulse width of the pulse current is preferably 1  $\mu$ s or less.